

AMENDMENTS TO THE CLAIMS

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Previously Presented) An oral phototherapy apparatus comprising:
a body sized and shaped so as to fit at least partially in a user's mouth;
at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity with phototherapeutic radiation in at least two separate spectral bands; and
one or more bristles optically coupled to the at least one radiation emitter to receive and propagate the phototherapeutic radiation therefrom;
wherein the bristles are shaped to control light distribution; and
wherein the bristles have at least one shape, relative to an elongated direction of the bristles, selected from the group of conical, tapered, curved and spiral shapes.

18. (Cancelled)

19. (Previously Presented) An oral phototherapy apparatus comprising:
a body sized and shaped so as to fit at least partially in a user's mouth;
at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity with phototherapeutic radiation in at least two separate spectral bands; and
one or more bristles optically coupled to the at least one radiation emitter to receive and propagate the phototherapeutic radiation therefrom;
wherein the bristles are shaped to transmit radiation; and
wherein the bristles have at least one shape, relative to an elongated direction of the bristles, selected from the group of conical, tapered, curved and spiral shapes.

20. (Cancelled)

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Previously Presented) An oral phototherapy apparatus comprising:
a body sized and shaped so as to fit at least partially in a user's mouth;
at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity
with phototherapeutic radiation in at least two separate spectral bands; and
one or more bristles optically coupled to the at least one radiation emitter to receive and
propagate the phototherapeutic radiation therefrom;
wherein the apparatus further comprises at least one thermally conductive element for
extracting heat from the emitter; and
wherein the thermally conductive element comprises a fluid heat transfer medium.

29. (Cancelled)

30. (Previously Presented) An oral phototherapy apparatus comprising:
a body sized and shaped so as to fit at least partially in a user's mouth;
at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity
with phototherapeutic radiation in at least two separate spectral bands; and
one or more bristles optically coupled to the at least one radiation emitter to receive and
propagate the phototherapeutic radiation therefrom;

wherein the apparatus further comprises at least one thermally conductive element for extracting heat from the emitter; and

wherein the thermally conductive element comprises a phase change material.

31. (Previously Presented) An oral phototherapy apparatus comprising:

a body sized and shaped so as to fit at least partially in a user's mouth;

at least one radiation emitter coupled to the body to irradiate a portion of the oral cavity with phototherapeutic radiation in at least two separate spectral bands; and

one or more bristles optically coupled to the at least one radiation emitter to receive and propagate the phototherapeutic radiation therefrom;

wherein the apparatus further comprises at least one thermally conductive element for extracting heat from the emitter; and

wherein the apparatus further comprises a heat transfer element for heating a portion of the oral cavity with waste heat from the apparatus.

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

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Examiner: Henry M. Johnson III
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40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)